## 1 **51251/FLC/F392** -

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## WHAT IS CLAIMED IS:

- 1. A direct thermal printer, comprising:
  - a thermal energy source;
    - a thermal energy modulator receiving thermal energy from the thermal energy source and transmitting modulated thermal energy to a thermal print medium; and
- a controller coupled to the thermal energy source and the thermal energy modulator.
  - 2. The direct thermal printer of claim 1, wherein the thermal energy source is a laser.
- 15 3. The direct thermal printer of claim 2, wherein the thermal energy modulator is a movable reflective surface.
  - 4. The direct thermal printer of claim 1 is wherein the thermal energy source is a heater element.
- 5. The direct thermal printer of claim 4 wherein the thermal energy modulator is an LCD shutter device.
- 6. The direct thermal printer of claim 1 is wherein the thermal energy source is a radiant light device.
  - 7. The direct thermal printer of claim 6 wherein the thermal energy modulator is an LCD shutter device.
- 30 8. The direct thermal printer of claim 1, further comprising a thermal medium drive mechanism coupled to the controller.
- 9. The direct thermal printer of claim 1, wherein the output power of the thermal energy source is controlled by the controller.

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10. A direct thermal printer, comprising:

thermal energy source means for generating thermal energy;

thermal energy moderator means for receiving thermal energy from the thermal energy source and transmitting modulated thermal energy to a thermal print medium; and

controller means, coupled to the thermal energy source means and the thermal energy moderator means for controlling the operations of the direct thermal printer.

- 11. A thermal printer, comprising:
- a direct thermal print head comprising an array of laser elements;
  - a thermal medium drive mechanism; and
  - a controller coupled to the direct thermal print head and the thermal medium drive mechanism.

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